

AMENDMENTS TO THE CLAIMS:

The following is a complete listing of the claims.

- 1.-9. (canceled)
10. (new) A method for diagnosing an autoimmune disease in a patient, the method comprising the step of detecting one or more antibodies in the patient by contacting a reagent with antibodies from the patient; wherein:
- the reagent comprises at least one antigen selected from the group consisting of a first polypeptide, a second polypeptide, a fragment of the first polypeptide, and a fragment of the second polypeptide; the first polypeptide having an amino acid sequence indicated by SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:4, or SEQ ID NO:5; and the second polypeptide having an amino acid sequence indicated by SEQ ID NO:2, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, or SEQ ID NO:11;
- the at least one antigen specifically binds with an antibody from an autoimmune disease patient; and
- the autoimmune disease is selected from the group consisting of rheumatoid arthritis, human systemic lupus erythematosus, Sjögren's syndrome, Behçet's disease, primary biliary cirrhosis, microscopic polyangitis/polyarteritis nodosa, ulcerative colitis, Crohn's disease, and autoimmune hepatitis.
11. (new) A method for diagnosing an autoimmune disease in a patient, the method comprising the step of detecting one or more antibodies in the patient by contacting a reagent with antibodies from the patient, the reagent comprising a mixture of a first antigen and a second antigen; wherein:

the first antigen is selected from the group consisting of a polypeptide having an amino acid indicated by SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, or a fragment thereof, the polypeptide or fragment specifically binds with an antibody from an autoimmune disease patient;

the second antigen is selected from the group consisting of a polypeptide having an amino acid sequence indicated by SEQ ID NO:2, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, or a fragment thereof, the polypeptide or fragment specifically binds with an antibody from an autoimmune disease patient; and

the autoimmune disease is selected from the group consisting of rheumatoid arthritis, human systemic lupus erythematosus, Sjögren's syndrome, Behçet's disease, primary biliary cirrhosis, microscopic polyangitis/polyarteritis nodosa, ulcerative colitis, Crohn's disease, and autoimmune hepatitis.

12. (new) A kit for diagnosing an autoimmune disease, the kit comprising:

a first antigen selected from the group consisting of a polypeptide having an amino acid indicated by SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, or a fragment thereof, the polypeptide or fragment specifically binds with an antibody from an autoimmune disease patient;

a second antigen selected from the group consisting of a polypeptide having an amino acid sequence indicated by SEQ ID NO:2, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, or a fragment thereof, the polypeptide or fragment specifically binds with an antibody from an autoimmune disease patient;

a first component for detecting a first antigen-antibody complex; and
a second component for detecting a second antigen-antibody complex;
wherein the autoimmune disease is selected from the group consisting of rheumatoid arthritis, human systemic lupus erythematosus, Sjögren's syndrome, Behçet's disease, primary biliary cirrhosis, microscopic polyangitis/polyarteritis nodosa, ulcerative colitis, Crohn's disease, and autoimmune hepatitis.